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Impact analysis and change management of UML models
LC Briand, Y Labiche - 2003 - computer.org
... 2. **Verify** the consistency of changed diagrams. ... Since consistency in complex **UML models** is not always easy to achieve, **verifying** consistency must be supported by tools. ... changes are then used to perform impact analysis on the model using the impact analysis **rules** relevant to ...
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Rule-based specification of behavioral consistency based on the UML meta-model
G Engels, R Heckel... - «UML» 2001—The Unified Modeling ..., 2001 - Springer
... Nevertheless, it is important to be able to specify consistency constraints and to **verify** them, eg, when certain ... the semantic domain should provide both a language for specifying constraints and analysis techniques for **verifying** them. ... 5. Verification of consistency constraints. ...
Cited by 110 - Related articles - BL Direct - All 9 versions

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Viatra-visual automated transformations for formal verification and validation of uml models
G Csertan, G Huszerl, I Majzik, Z Pap... - ... ASE 2002. 17th ..., 2002 - ieeexplore.ieee.org
... Semantic correctness of transformations is being verified by projecting model transformation **rules** into the SAL in- termediate language [1], which provides ... The formal verification of logic correctness of concurrent object-based systems designed in **UML** necessitates the ...
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Automated verification of UMLsec models for security requirements
J Jürjens... - <> 2004·The Unified Modelling Language, 2004 - Springer
... We use the Spin model checker since we found it suitable for verification of distributed communicating ... In particular, Spin's on-the-fly model checking allowing to partially **verify** a model without building the full state space seems suitable for **verifying** security requirements ...
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[PDF] Extending OCL for verifying UML models consistency
JP Bodeveix, T Millan, C Percebois, C Le Camus... - ..., Concepts and Tools - Citeseer
... The verification of OCL constraints is in general not possible statically during the de- sign and ... **Verifying** that a model satisfies an OCL constraint becomes now decidable and this is ... the purpose of the checking tool developed in NEPTUNE is twofold: • **verify** the wellformedness of ...
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Live and let die: LSC-based verification of UML-models
W Damm... - Formal Methods for Components and Objects, 2003 - Springer

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... The tools presented in [27,40] provide automatic solving of "drive to collaboration" tasks, ie to **verify** for **UML** ... Live and Let Die: LSC-Based Verification of **UML**-**Models** ... events and triggered operations in M as set of messages Msg together with a number of well-formedness **rules**: ...
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[PDF] Towards automatic translation of **UML models** into semantic domains

[PDF] from uni-paderborn.de

R Heckel, J Küster... - Proc. AGT, 2002 - cs.uni-paderborn.de
... a partial mapping into this domain, and specify as well as **verify** consistency con ... graph transformation approaches for the precise definition of meta model **rules** and outline ... the sense that it must allow the formal specification and (automatic) verification of consistency constraints ...
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Deductive **verification of UML models** in TLPVS

[PDF] from psu.edu

T Arons, J Hooman, H Kugler, A Pnueli... - <> 2004-The Unified ..., 2004 - Springer
... In this paper we present an approach for the deductive verification of such systems using the PVS ... We apply our method by **verifying** two examples, demonstrating the feasibility of our approach on ... We define a notion of fairness for **UML** systems, allowing us to **verify** both safety ...
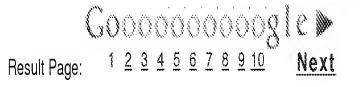Cited by 18 - Related articles - BL Direct - All 19 versions

The evaluation of large, complex **UML** analysis and design **models**

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B Berenbach - Software Engineering, 2004. ICSE 2004. ..., 2004 - ieeexplore.ieee.org
... the heuristics are programmatically verifiable, others require human cognition to **verify**. ... with DOORS", Fifth IEEE International Symposium on Requirements Engineering (RE ... Class **Models** as a Means for Validation and Verification of Requirements Specifications", Requirements ...
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[PDF] **Rule**-based detection of inconsistency in **UML models**

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WQ Liu, S Easterbrook... - ... on Consistency Problems in **UML** ..., 2002 - Citeseer
... XML-based [4] first-order logic **rule** language in defining consistency **rules** and **verifying** consistency of ... In our approach, the **rules** may be arranged by priority, but no limitation on applicability is ... removal thread periodically makes a pass through the To- Do List, and **verifies** ...
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